Solutions- Easy Test

Solutions for questions ١ to ٤:

١.   (c) : In the two years، ٢٠١٨& ٢٠١٩، the required percentage is more than ٢٥٪ but it happened in ٢٠١١ for the first time.

٢.   (d) : The greatest decline happened for Course ٤ which is $=\frac{١٨-٦}{١٨}$ ٪١٠٠=٦٦٪

٣.   (c) : Percentage of Course ١ canditates as a percentage of total:

Year	Percentage
٢٠١٦	$\frac{١٦٠}{٤٦٠}$ × ١٠٠ = ٣٤.٧٨٪
٢٠١٧	$\frac{٢٠٠}{٦٤٠}$ □١٠٠ ٪ ٣١.٢٥٪
٢٠١٨	$\frac{٢٥٠}{٧١٥}$ ×١٠٠=٣٤.٩٦٪
٢٠١٩	$\frac{١٥٠}{٦٠٠}$ □١٠٠ ٪ ٢٥٪
٢٠٢١	$\frac{١٤٠}{٧٢٠}$ × ١٠٠ =١٩.٤٤٪
٢٠٢٢	$\frac{١٦٠}{٨١٠}$ □١٠٠ ٪١٩.٧٥٪

It is the highest for the year ٢٠١١.

٤.   (d) : Total admission for each course:
Course ٢ = ٤٠ + ٨٠ + ٩٥ + ١٠٠ + ١١٠ + ١٣٠ = ٥٥٥،
Course ٥ = ١٠٠ + ١٤٠ + ١٨٠ + ٢٠٠ + ٢٥٠ + ٣٠٠ = ٢٣٤،
Course ٤ = ١٤ + ١٨ + ١٠ + ٦ + ١٢ + ١٦ = ١١٧٠،
Course ٣ = ٨٠ + ١٢٠ + ١٢٠ + ١١٠ + ١٥٠ + ١٣٠ = ٧١٠.
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Solutions for questions ٥ to ٨:

٥   (d) : No details about Party٢ is given.

.   (b) : Difference from previous year is ٥٤ as is obvious from the given bar chart.

٦   (a) : Total votes in ٢٠٠٩ =(٢.٢٤ /٤٤.٨)×١٠٠=٥ crore

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Total Votes in ١٩٩٩ = (١.٢٢٨/٣٠.٧)×١٠٠ = ٤ crore

٤ cr. is ٢٠٪ less than ٥ cr.

٨. (b) : As data for other partis is not known

Solutions for questions ٩ to ١٢ :

٩. (c) : Percentage change in R٢ Sales

$$= \left(\frac{\frac{æ æ´}{ç ç è} \quad \frac{١٠٢٠٠ö}{١٠٠} \quad æ١٢´٢٤٠٠}{æ١٢´٢٤٠٠ö}\right) × ١٠٠ = ١٨٣٪$$

١٠. (a) : R٣

$$= \frac{٢٦}{١٠٠}´١٠٢٠٠ - \frac{٢٦}{١٠٠}´٢٤٠٠ = ٢٠٢٨ \text{ton}$$

$$R٤ = \frac{٢٥}{١٠٠}´١٠٢٠٠ - \frac{٢٦}{١٠٠}´٢٤٠٠ = ٢٠٤٦ \text{ton}$$

$$R٥ = \frac{٢٤´١٠٢٠٠}{١٠٠} - \frac{٢٦´٢٤٠٠}{١٠٠} = ١٨١٢ \text{ton}$$

١١. (d) :

$$\text{Ratio} = \frac{\frac{٢.١}{١٠٠}´٢٤٠٠}{\frac{١٧}{١٠٠}´١٠٢٠٠} = ٠.٢٩$$

١٢. (c) : Required Ratio

$$= \frac{\text{Increase in R٤}}{\text{Increase in R٣}}$$

$$= \frac{٢٠٤٦}{٢٠٢٨} = ١$$

Solutions for questions ١٣ to ١٦ :

١٣. (a) :

Month	$\left(\frac{C٣}{C٢+C٤}\right)$	
January	$\frac{٧٥}{١٠٠٤٢٠٠}$	٢٥٪
February	$\frac{٧٥}{١٠٠٤١٧٥}$	٢٧.٢٧٪
March	$\frac{١٠٠}{١٢٥٤٢٥٠}$	٢٦.٦٦٪
April	$\frac{١٠٠}{١٥٠٤٣٠٠}$	٢٢.٢٢٪
May	$\frac{٥٠}{٧٥٤١٧٥}$	٢٠٪

June $\dfrac{٧٥}{١٠٠ ξ ٢٧٥}$ ×=٢٠.٠٪

Hence، the required percentage was the most in the month of February.

١٤. (d) : Month $\overset{C١}{\text{Total Sales}}′ ١٠٠$

January $\dfrac{١٧٥}{٥٥٠}×١٠٠=٣١.٣١٪$

February $\dfrac{١٥٠}{٥٠٠}×١٠٠=٣٠٪$

March $\dfrac{٢٢٥}{٧٠٠}×١٠٠=٣٢.١٤٪$

April $\dfrac{٢٥٠}{٨٠٠}×١٠٠ =٣١.٢٥٪$

May $\dfrac{١٥٠}{٤٥٠}×١٠٠ =٣٣.٣٣٪$

June $\dfrac{٢٠٠}{٦٥٠}×١٠٠=٣٠.٧٪$

No month have sales more than ٣٣.٣٣٪. Hence option (d)

١٥. (b) : Month $\overset{C٢}{\text{Total Sales}}′ ١٠٠$

January $\dfrac{٧٥}{٥٥٠}=١٠٠ =١٣.٦٪$

February $\dfrac{٧٥}{٥٠٠}=١٠٠ ١٥٪$

March $\dfrac{١٠٠}{٧٠٠}=١٠٠ =١٤.٢٨٪$

April $\dfrac{١٠٠}{٨٠٠}=١٠٠ =١٢.٥٪$

May $\dfrac{٥٠}{٤٥٠}=١٠٠ =١١.١١٪$

June $\dfrac{٧٥}{٦٥٠}=١٠٠ =١١.٥٣٪$

In February and June.

١٦. (c) : Verify the choices one by one.
(a) The total sales of all the four companies was different in each month، hence (a) is false.
(b) For the given period:
Total Sales of $C١ = ١٧٥ + ١٥٠ + ٢٢٥ + ٢٥٠ + ١٥٠ + ٢٠٠ = ١١٥٠$.
Total Sales of $C٢ = ٧٥ + ٧٥ + ١٠٠ + ١٠٠ + ٥٠ + ٧٥ = ٤٧٥$.
Hence، (b) is false.
(c) Total Sales of $C٢$ for the given period $= ٦٥٠$
Required percentage

$= \dfrac{٦٥٠}{١١٥٠ + ٤٧٥ + ١٣٧٥ + ٦٥٠} =١٧.٨٪$

(d) The sales of $C٢$ were less than the sales of $C٤$ in each month. Hence، (d) is false

Solutions for questions ١٧ to ٢٠:

١٧. (c) : Shown of Printing is ٨٪ of the total cost. Here ١٠٠٪ = ٣٦٠°. So، ١٪ = ٣.٦°.

So، central angle $= ٨ × ٣.٦ = ٢٨.٨°$

١٨. (a) : Let the total cost of writing the book is x.
So، ١٢٪ of x = ١٤٤٠٠، Cost of Others = ١٥٪ of Total cost = ١٥٪ of ١،٢٠،٠٠٠ = ١٨،٠٠٠.

١٩. (b) : Let the total cost is ١٠٠، then Publishing cost = ٣٥٪ of ١٠٠ = ٣٥ & Marketing Cost = ٣٠٪ of ١٠٠ = ٣٠. So، by the Publishing cost is ١٦.٦٦٪ more than the Marketing cost.

٢٠. (c) : Let the total cost is ١٠٠، then Marketing cost = ٣٠، New Marketing cost after the increase of ٢٠٪ = ١.٢(٣٠) = ٣٦، New Total cost = ١٠٦. So، the percentage shown of Marketing cost

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